

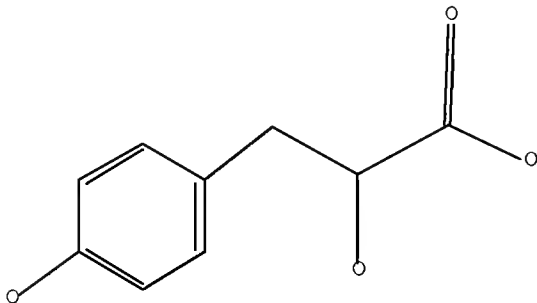
L1 STRUCTURE UPLOADED

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



L2 50 S L1 SSS SAM

L3 12733 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:08:02 ON 28 JUN 2010

L4 1709 S L3/PREP

L5 1011 S L4 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L6 164 S L4 AND (ASYMMETRIC)

L7 1011 S L4 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L8 91 S L6 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L9 1 S US 20070142472/PN

L10 1709 S L3/PREP

L11 51 S L10 AND HYDROGENATION/IT

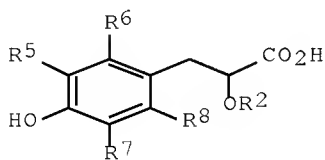
L12 34 S L11 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L13 24 S L11 AND (ASYMMETRIC OR ?SELECTIV?)

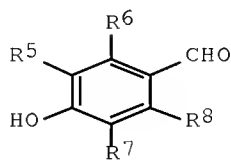
L14 10 S L13 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L14 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

GI



I



II

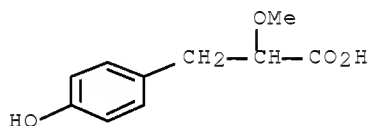
AB Title compds. (I; R2 = alkyl; R5-R8 = H, substituent) and salts thereof were prepared by reaction of benzaldehydes (II; R1 = protective group; R5-R8 as defined above) with R2OCH2CO2R3 (R3 = hydrocarbyl; R2 as defined above), hydrolysis of the resulting cinnamate esters to give cinnamic acids, ~~asym.~~ hydrogenation, and

O-deprotection. Thus, a mixture of 4-benzyloxybenzaldehyde, Me methoxyacetate, and NaOMe was refluxed 5 h in MeOH to give 80% Me 3-(4-benzyloxyphenyl)-2-methoxyacrylate. This was refluxed 2 h with 1N NaOH in MeOH to give 85% 3-(4-benzyloxyphenyl)-2-methoxyacrylic acid Na salt. The latter was hydrogenated in MeOH over [Ru(p-cymene)[(S)-dm-segphos]]Cl in MeOH at 5 MPa and 60° for 16 h to give Na 3-(4-hydroxyphenyl)-2-methoxypropionate in 20% yield and 92.9% enantiomeric excess.

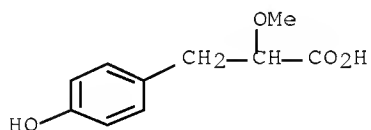
ACCESSION NUMBER: 2005:490344 CAPLUS Full-text
DOCUMENT NUMBER: 143:43684
TITLE: Process for preparation of optically active
of 3-(4-hydroxyphenyl)propionic acids by reaction
acid protected 4-hydroxybenzaldehydes and glycolic
acid derivatives to give cinnamates and asymmetric
hydrogenation of the latter.
INVENTOR(S): Yokozawa, Tohru; Shimizu, Hideo; Fujiwara,
Takahiro;
Ino, Yasunori
PATENT ASSIGNEE(S): Takasago International Corporation, Japan
SOURCE: PCT Int. Appl., 95 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005051882	A1	20050609	WO 2004-JP17998	
20041126 <--				
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KZ, LC,				
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NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,				
SL, SY,				
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EP 1687250	A1	20060809	EP 2004-819490	
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 JP 2007512222 T 20070517 JP 2006-520429
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 US 20070142472 A1 20070621 US 2006-578744
 20060510 <--
 PRIORITY APPLN. INFO.: JP 2003-398201 A
 20031127 <--
 WO 2004-JP17998 W
 20041126
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 143:43684; MARPAT 143:43684
 IT 477982-28-8P 853562-54-6P 853562-55-7P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation);
 PREP
 (Preparation)
 (optically active; preparation of optically active
 hydroxyphenylpropionates
 by reaction of protected hydroxybenzaldehydes and glycolic acid
 derivs.
 to give cinnamates and asym. hydrogenation of the
 latter)
 RN 477982-28-8 CAPLUS
 CN Benzenepropanoic acid, 4-hydroxy- α -methoxy- (CA INDEX NAME)



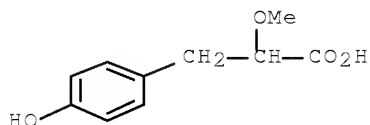
RN 853562-54-6 CAPLUS
 CN Benzenepropanoic acid, 4-hydroxy- α -methoxy-, sodium salt (1:1)
 (CA
 INDEX NAME)



● Na

RN 853562-55-7 CAPLUS
 CN Benzenepropanoic acid, 4-hydroxy- α -methoxy-, compd. with
 cyclohexanamine (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 477982-28-8

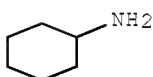
CMF C10 H12 O4



CM 2

CRN 108-91-8

CMF C6 H13 N



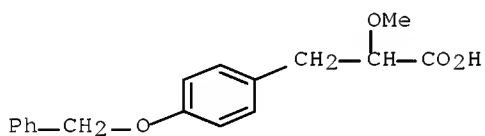
IT 853562-58-0P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of optically active hydroxyphenylpropionates by reaction of protected hydroxybenzaldehydes and glycolic acid derivs. to give

cinnamates and asym. hydrogenation of the latter)

RN 853562-58-0 CAPLUS

CN Benzenepropanoic acid, α -methoxy-4-(phenylmethoxy)-, sodium salt (1:1) (CA INDEX NAME)



● Na

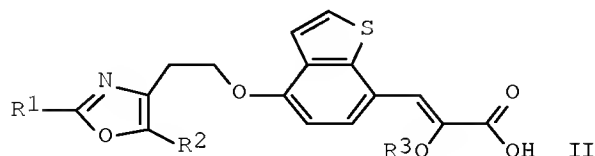
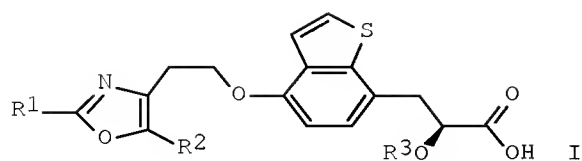
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



AB The present invention is concerned with a novel process for the preparation of compds. of formula (I) (wherein R1 = aryl or heteroaryl; R2, R3 = lower alkyl) or salts thereof comprising catalytic ~~asym.~~ hydrogenation of a compound of formula (II) in the presence of a catalyst comprising ruthenium or rhodium and a chiral diphosphine ligand or comprising rhodium and a chiral diphosphine ligand. The compds. of formula I and the corresponding salts and/or esters are pharmaceutically active substances. Thus, (Z)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid Me ester. Thus, a suspension of 6.39 g Me 2-methoxy-2-(triphenylphosphonium)acetate chloride (prepared from Me 2-chloro-2-methoxyacetate and triphenylphosphine), 0.68 g lithium methylate, and 3.89 g 4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophene-7-carboxaldehyde in 40 mL DMF was heated for 23 h at 75°, and cooled to 0° to give, after filtering the formed white crystals, washing with 40 mL methanol, drying at 20° and 1 mbar for 16 h, 3.54 g (73 %) (Z)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid Me ester (III) (97.5% purity). III (45.81 g) in 920 mL methanol was treated with a solution of 40.15 g KOH in 92 mL H2O and stirred for 90 min at 100° to give the yellowish reaction solution which was cooled to 60°, treated dropwise with 54 mL concentrate HCl within 5 min (pH 3-4), cooled to 0°, and filtered to give 41.66 g (95%) (Z)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid (IV) (purity >99.9 %). IV (7.0 g), 20 mL CH2Cl2, 10 mL MeOH, 3.21 mL 1 M aqueous NaOH solution, and a solution of 6.51 mg (0.00804 mmol) of Ru(OAc)2((S)-TMBTP) [TMBTP = 4,4'-bis(diphenylphosphino)-2,2',5,5'-tetramethyl-3,3'-dithiophene] in 2 mL MeOH were mixed, rendered homogeneous, and treated with 18 mL MeOH to give a suspension which was autoclaved at 40° and 30 bar H for 6 h to give 7.27 g (S)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid (97.1% purity, 93% enantiomeric purity).

ACCESSION NUMBER: 2005:284199 CAPLUS Full-text
 DOCUMENT NUMBER: 142:355259
 TITLE: Process for the production of chiral propionic acid derivatives
 INVENTOR(S): Puentener, Kurt; Scalone, Michelangelo
 PATENT ASSIGNEE(S): Hoffman-La Roche Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 17 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050070714	A1	20050331	US 2004-933176	
20040902 <--				
US 7262303	B2	20070828		
CA 2539176	A1	20050407	CA 2004-2539176	
20040921 <--				
CA 2539176	C	20100105		
WO 2005030764	A1	20050407	WO 2004-EP10568	
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1670792	A1	20060621	EP 2004-765444	
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CN 1860115	A	20061108	CN 2004-80028176	
20040921 <--				
JP 2007506800	T	20070322	JP 2006-530000	
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AT 381561	T	20080115	AT 2004-765444	

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 ES 2297463 T3 20080501 ES 2004-765444
 20040921 <--
 MX 2006003365 A 20060608 MX 2006-3365
 20060324 <--
 KR 2006056405 A 20060524 KR 2006-706097
 20060329 <--
 KR 854886 B1 20080828
 US 20070249842 A1 20071025 US 2007-811071
 20070608 <--
 US 7365207 B2 20080429
 PRIORITY APPLN. INFO.: EP 2003-21700 A
 20030929 <-- US 2004-933176 A3
 20040902 WO 2004-EP10568 W

20040921

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 142:355259; MARPAT 142:355259

IT 849150-54-5P, 3-Hydroxy-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid methyl ester

849150-60-3P, 3-Hydroxy-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-

4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of chiral (benzothiophenyl)propionic acid derivative

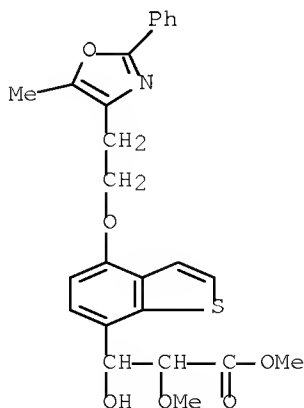
by asym. hydrogenation of

(benzothiophenyl)propenoic acid derivative in presence of chiral ruthenium

or rhodium phosphine complex)

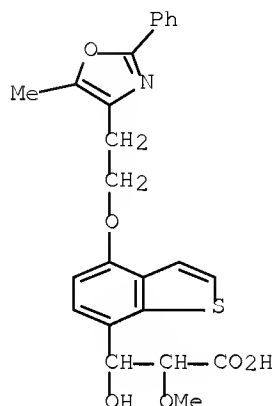
RN 849150-54-5 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid,
 β -hydroxy- α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-
 , methyl ester (CA INDEX NAME)



RN 849150-60-3 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid,
 β -hydroxy- α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-
 (CA INDEX NAME)



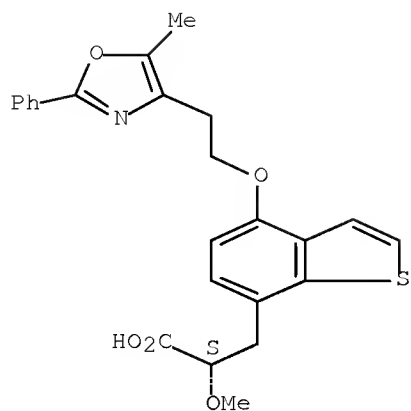
IT 475479-34-6P, (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid 849150-56-7P,
 (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid (S)-
 phenylethylamine salt
 849150-58-9P, (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid cinchonidine salt
 849150-59-0P, (R)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid 881663-41-8P
 881663-49-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of chiral (benzothiophenyl)propionic acid
 derivative by
 asym. hydrogenation of (benzothiophenyl)propenoic
 acid derivative in presence of chiral ruthenium or rhodium
 phosphine
 complex)

RN 475479-34-6 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid,
 α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (α S)-
 (CA INDEX NAME)

Absolute stereochemistry.

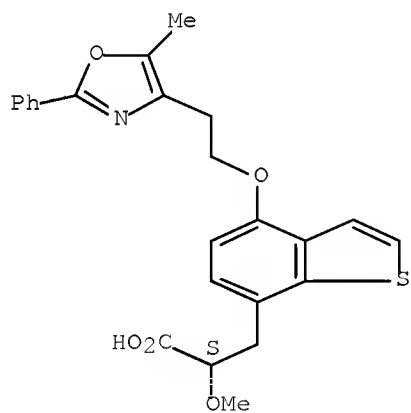


RN 849150-56-7 CAPLUS
 CN Benzo[b]thiophene-7-propanoic acid,
 α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (α S)-,
 compd. with (α S)- α -methylbenzenemethanamine (1:1) (9CI) (CA
 INDEX NAME)

CM 1

CRN 475479-34-6
 CMF C24 H23 N O5 S

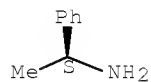
Absolute stereochemistry.



CM 2

CRN 2627-86-3
 CMF C8 H11 N

Absolute stereochemistry. Rotation (-).



RN 849150-58-9 CAPLUS

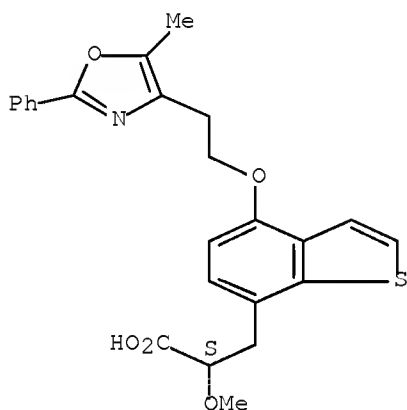
CN Cinchonan-9-ol, (8 α ,9R)-, mono[(α S)- α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]benzo[b]thiophene-7-propanoate]
(salt)
(9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6

CMF C24 H23 N O5 S

Absolute stereochemistry.

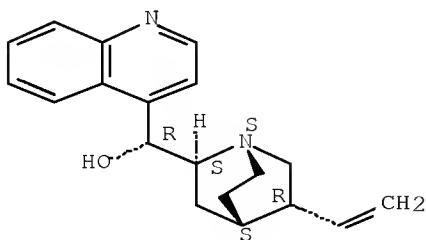


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CRN 485-71-2

CMF C19 H22 N2 O

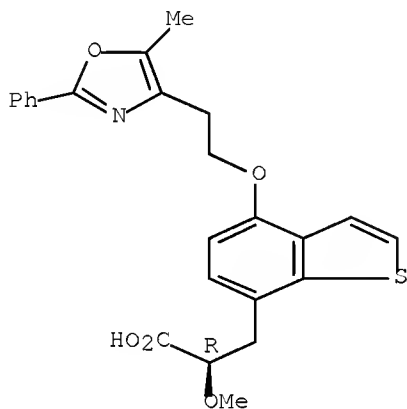
Absolute stereochemistry. Rotation (-).



RN 849150-59-0 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid,
 α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (α R)-
 (CA INDEX NAME)

Absolute stereochemistry.

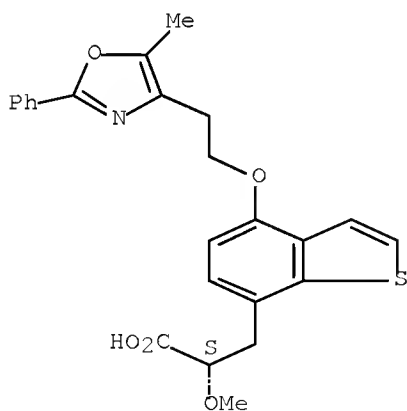


RN 881663-41-8 CAPLUS
 CN Benzo[b]thiophene-7-propanoic acid,
 α -methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (α S)-,
 compd. with (α R)- α -[(1S)-1-aminoethyl]benzenemethanol (1:1)
 (9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6
 CMF C24 H23 N O5 S

Absolute stereochemistry.

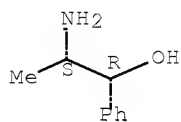


CM 2

CRN 492-41-1

CMF C9 H13 N O

Absolute stereochemistry. Rotation (-).



RN 881663-49-6 CAPLUS

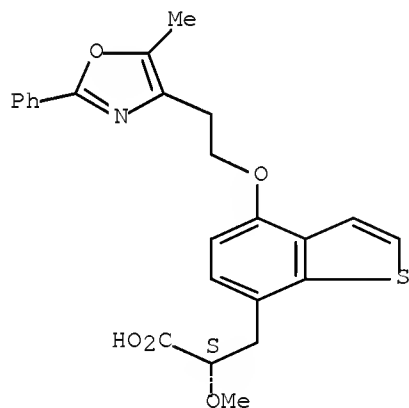
CN Cinchonan-9-ol, 6'-methoxy-, (8 α ,9R)-,
mono[(α S)- α -methoxy-4-[2-(5-methyl-2-phenyl-4-
oxazolyl)ethoxy]benzo[b]thiophene-7-propanoate] (salt) (9CI) (CA

INDEX
NAME)

CM 1

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CMF C24 H23 N O5 S

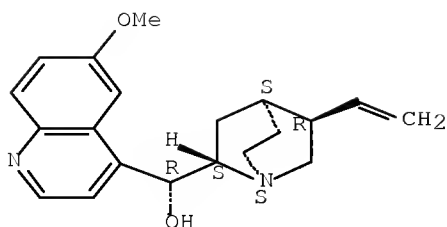
Absolute stereochemistry.



CM 2

CRN 130-95-0
CMF C20 H24 N2 O2

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L14 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB The present invention discloses an improve process for the preparation of (S)-(-)- and (R)-(+)-3-aryl-2-hydroxypropanoic acid derivs. without any resolution involved via copper complexation and selective O-benzoylation of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-tyrosine, and alkylation. Thus, 5 kg L-tyrosine, 4 kg KOH, and 4.3 kg copper sulfate pentahydrate were stirred at 60-66° in 10 L H₂O, cooled, treated with 20 L DMF and then slowly with 4.2 kg benzyl chloride at 50-60°, cooled to 26-28°, followed by filtration and washing with H₂O, to give 8.2 kg O-benzyl-L-tyrosine copper complex. The O-benzyl-L-tyrosine copper complex was added to H₂O, treated with 5.8 L 35% concentrated HCl with stirring, followed by filtration, washing with H₂O and 10% aqueous NH₃, and drying to give 4.3 kg O-benzyl-L-tyrosine (54.5% yield). O-benzyl-L-tyrosine (500 g) was suspended in 6.25 L dioxane, treated with dilute aqueous H₂SO₄ (540 g, 5.53 mol, 2.5 L H₂O) at room temperature, cooled to 0-2° in an ice salt bath, treated with aqueous NaNO₂ solution (636 g, 09.22 mol) at 0°, and stirred for 24 h below 30° to give, after workup, (S)-(-)-2-hydroxy-3-(4-benzyloxyphenyl)propanoic acid (I). A mixture of 500 g I, 811 g KOH, and 5 L DMSO was cooled in an ice bath, followed by adding 1.9 kg di-Et sulfate through a dropping funnel at 8-10°, and the resulting mixture was stirred till completion of the reaction to give, after workup, 500 g (S)-(-)-Et 2-ethoxy-3-(4-benzyloxyphenyl)propanoate (98.6% chemical purity and 97.36% enantiomeric purity).

ACCESSION NUMBER: 2005:182608 CAPLUS Full-text

DOCUMENT NUMBER: 142:279950

TITLE: Process for preparing 3-aryl-2-hydroxypropanoic acid

derivatives without resolution

INVENTOR(S): Barot, Vijay Kumar Gajubhai; Kothari, Himanshu
Madhusudanbhai; Lohray, Braj Bhushan; Lohray, Vidya

Bhushan
PATENT ASSIGNEE(S): Cadila Healthcare Limited, India

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005019152	A2	20050303	WO 2004-IN156	
20040604 <--				
WO 2005019152	A3	20050811		
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CA, CH,				
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KZ, LC,				
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EP 1636164	A2	20060322	EP 2004-785914	
20040604 <--				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,				
PL, SK, HR				
BR 2004011409	A	20060725	BR 2004-11409	
20040604 <--				
JP 2006527186	T	20061130	JP 2006-508489	
20040604 <--				
MX 2005013216	A	20060309	MX 2005-13216	
20051206 <--				
PRIORITY APPLN. INFO.:			IN 2003-MU586	A
20030606 <--				
			WO 2004-IN156	W
20040604				
OTHER SOURCE(S):			CASREACT 142:279950; MARPAT 142:279950	
IT 162919-37-1P, (S)-(-)-2-Hydroxy-3-(4-benzyloxyphenyl)propanoic				
acid 251454-50-9P, (S)-(-)-Ethyl				
2-ethoxy-3-(4-benzyloxyphenyl)propanoate 267228-40-0P,				

(S)-(-)-Ethyl 2-hydroxy-3-(4-benzyloxyphenyl)propanoate
 373368-68-4P, (R)-(+)-2-Hydroxy-3-(4-benzyloxyphenyl)propanoic
 acid 847268-21-7P, (R)-(+)-Ethyl
 2-ethoxy-3-(4-benzyloxyphenyl)propanoate

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
 preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs.

without

resolution via copper complexation and selective O-benylation

of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-

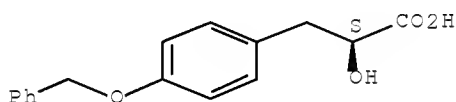
tyrosine, and

alkylation)

RN 162919-37-1 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-(phenylmethoxy)-, (α S)-
 (CA INDEX NAME)

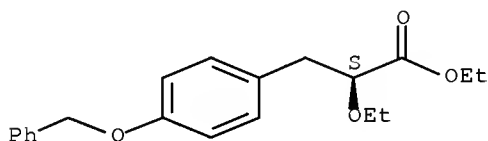
Absolute stereochemistry. Rotation (-).



RN 251454-50-9 CAPLUS

CN Benzenepropanoic acid, α -ethoxy-4-(phenylmethoxy)-, ethyl ester,
 (α S)- (CA INDEX NAME)

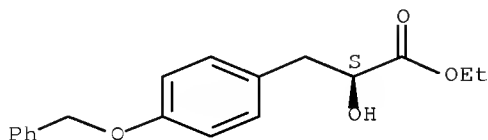
Absolute stereochemistry. Rotation (-).



RN 267228-40-0 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-(phenylmethoxy)-, ethyl ester,
 (α S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

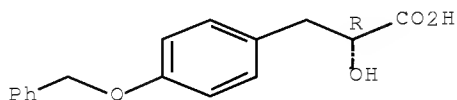


RN 373368-68-4 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-(phenylmethoxy)-, (α R)-

(CA INDEX NAME)

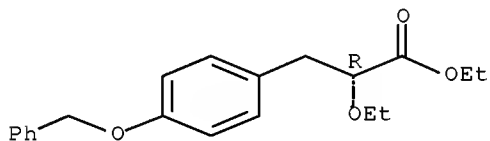
Absolute stereochemistry. Rotation (+).



RN 847268-21-7 CAPLUS

CN Benzenepropanoic acid, α -ethoxy-4-(phenylmethoxy)-, ethyl ester,
(α R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 222555-06-8P, (S)-(-)-Ethyl

2-ethoxy-3-(4-hydroxyphenyl)propanoate

RL: IMF (Industrial manufacture); SPN (Synthetic preparation);

PREP

(Preparation)

(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs.

without

resolution via copper complexation and selective O-benylation

of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-

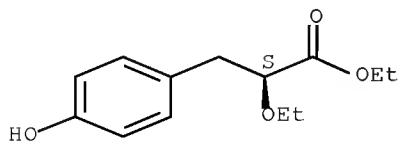
tyrosine, and

alkylation)

RN 222555-06-8 CAPLUS

CN Benzenepropanoic acid, α -ethoxy-4-hydroxy-, ethyl ester, (α S)-
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 222555-05-7P, (R)-(+)-Ethyl

2-ethoxy-3-(4-hydroxyphenyl)propanoate

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs.

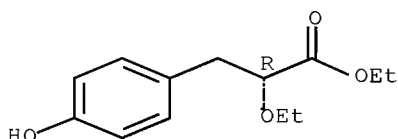
without

resolution via copper complexation and selective O-benylation
of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-
tyrosine, and
alkylation)

RN 222555-05-7 CAPLUS

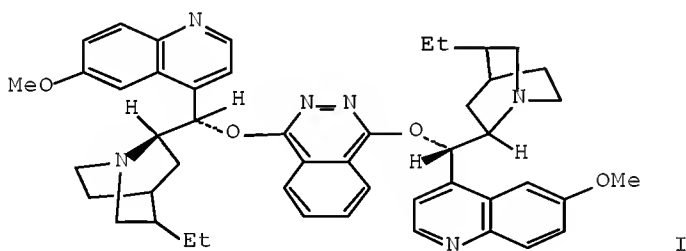
CN Benzenepropanoic acid, α -ethoxy-4-hydroxy-, ethyl ester, (α R)-
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L14 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



AB Osmium-catalyzed methods of addition to an olefin are studied. In the method of *asym.* dihydroxylation of the present invention, an olefin, a chiral ligand, an organic solvent, an aqueous solution, a base, a ferricyanide salt and an osmium-containing compound are combined. The chiral ligand is an alkaloid or alkaloid derivative linked to an organic substituent of at least 300 daltons mol. weight through a planar aromatic spacer group. The organic substituent can be another alkaloid or alkaloid derivative With the described chiral ligands, *asym.* dihydroxylation of olefins with high yields and enantiomeric excesses are achieved. Thus, dihydroquinidine was treated with 1,4-dichlorophthalazine in DMF containing NaH to give 1,4-bis(9'-O-dihydroquinidyl)phthalazine

(I). To a well stirred solution of I, a solution of potassium ferricyanide, K₂CO₃, OsO₄ in toluene was added a Me₃COH-H₂O solution of 1-decene, the solution was stirred for 24 h at 0° followed by addition of sodium sulfite to give 83% 1,2-decanediol with 84% ee.

ACCESSION NUMBER: 1993:539588 CAPLUS Full-text
DOCUMENT NUMBER: 119:139588
ORIGINAL REFERENCE NO.: 119:25059a,25062a
TITLE: New ligands for asymmetric dihydroxylation:
multiple cinchona alkaloid units attached to a
central
heterocyclic core
INVENTOR(S): Hartung, Jens; Sharpless, K. Barry
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9307142	A1	19930415	WO 1992-US8544	
19921006 <--				
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
US 5260461	A	19931109	US 1991-775683	
19911010 <--				
EP 608307	A1	19940803	EP 1992-921493	
19921006 <--				
EP 608307	B1	20040204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
JP 07500323	T	19950112	JP 1993-507170	
19921006 <--				
JP 3982829	B2	20070926		
CA 2120919	C	20030701	CA 1992-2120919	
19921006 <--				
AT 258932	T	20040215	AT 1992-921493	
19921006 <--				
ES 2215989	T3	20041016	ES 1992-921493	
19921006 <--				
PRIORITY APPLN. INFO.:			US 1991-775683	A
19911010 <--				
			US 1988-142692	B2
19880111 <--				
			US 1988-159064	A2
19880223 <--				
			US 1988-250378	A2
19880928 <--				
			US 1990-512934	A2
19900423 <--				
			WO 1991-US2778	W
19910423 <--				
			US 1991-699183	A2

19910513 <--

WO 1992-US8544 W

19921006 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

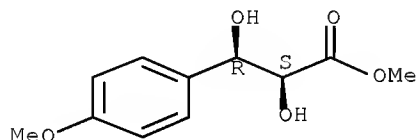
IT 122517-80-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 122517-80-0 CAPLUS

CN Benzenepropanoic acid, α,β -dihydroxy-4-methoxy-, methyl ester,
($\alpha S, \beta R$)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE
THIS RECORD

(8 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L14 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB For the purpose of carrying out smoothly enzymic reaction of water-insol. substrates in organic solvents, a new type of immobilized enzyme, a lipid-lipase aggregate, was developed. To prepare various kinds of lipid-lipase aggregates, 27 kinds of dialkyl ether-type phospholipid analogs were newly synthesized and used for the preparation of aggregates with lipase. Thus obtained lipid-lipase aggregates catalyzed the ~~enantioselective~~ hydrolysis of the (\pm)- α -acyloxy ester 2 much more efficiently than lipase immobilized with synthetic prepolymer (ENTP-4000) in water-saturated iso-Pr ether. The reaction time became much shorter (2 to 3 days for completion as compared with 21 days) and the chemical and optical yields of the reaction products were high.

ACCESSION NUMBER: 1992:486257 CAPLUS Full-text

DOCUMENT NUMBER: 117:86257

ORIGINAL REFERENCE NO.: 117:14967a,14970a

TITLE: A lipid-lipase aggregate with ether linkage as
a new

type of immobilized enzyme for
~~enantioselective~~ hydrolysis in organic
solvents

AUTHOR(S): Akita, Hiroyuki; Umezawa, Isao; Matsukura,
Hiroko;

Oishi, Takeshi

CORPORATE SOURCE: Sch. Pharm. Sci., Toho Univ., Funabashi, 274,
Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1992),

40(2), 318-24

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 125354-94-1F 125354-96-3F

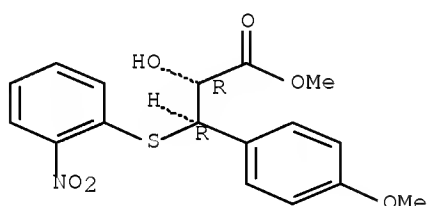
RL: PREP (Preparation)

(preparation of, by lipid-lipase aggregate hydrolysis in solvents)

RN 125354-94-1 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

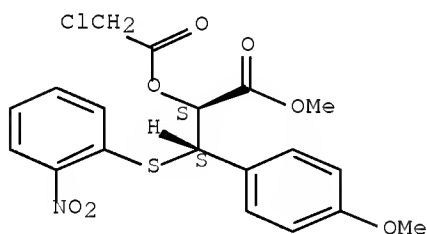
Absolute stereochemistry.



RN 125354-96-3 CAPLUS

CN Benzenepropanoic acid, α -[(chloroacetyl)oxy]-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

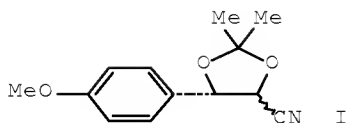
Absolute stereochemistry.



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

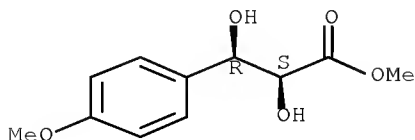
L14 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN GI



AB Cyanohydrins of aromatic aldehydes can be obtained in high optical purity using the Inoue dipeptide catalyst system and converted into enantiomerically and diastereochem. pure threo-3-aryl-2,3-dihydroxypropanoic acid derivs. via a route which involves a base-catalyzed equilibration of the acetonides of the cyano diols. Thus, (R)-(+)-4-MeOC₆H₄CH(OH)CN was hydrogenated over Ni and treated sequentially with NaHSO₃, NaCN, and (MeO)₂CMe₂ and acid to give cis- and trans-dioxolanes I. Hydrolysis and epimerization of I with KOH in EtOH and then treatment with aqueous acid followed by HCl-MeOH gave the enantiomerically pure threo-4-MeOC₆H₄CH(OH)CH(OH)CO₂Me (II). II was successfully converted into diltiazem.

ACCESSION NUMBER: 1990:406196 CAPLUS Full-text
 DOCUMENT NUMBER: 113:6196
 ORIGINAL REFERENCE NO.: 113:1203a,1206a
 TITLE: Synthesis of threo-3-aryl-2,3-dihydroxypropanoic acid derivatives with high optical purity
 AUTHOR(S): Matthews, Barry R.; Gountzos, Helen; Jackson, W. Roy;
 Watson, Keith G.
 CORPORATE SOURCE: Dep. Chem., Monash Univ., Clayton, 3168, Australia
 SOURCE: Tetrahedron Letters (1989), 30(38), 5157-8
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 113:6196
 IT 122517-80-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to diltiazem)
 RN 122517-80-0 CAPLUS
 CN Benzenepropanoic acid, α,β -dihydroxy-4-methoxy-, methyl ester, (α S, β R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 38 THERE ARE 38 CAPLUS RECORDS THAT CITE THIS
 RECORD (39 CITINGS)

L14 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB Vicinal diols are prepared by ~~asym.~~ dihydroxylation of olefins in the presence of a chiral ligand, an Os-containing catalyst, an amine oxide, an organic solvent, and H₂O. OsO₄ was injected into a solution of trans-stilbene, hydroquinidine p-chlorobenzoate, and N-methylmorpholine N-oxide in Me₂CO and H₂O at 0-4° with shaking, Na₂S₂O₅ added, and the mixture worked up to give 55% (R,R)-PhCH(OH)CH(OH)Ph of 99% enantiomeric excess. Preparation of dihydroquinidine derivs. and their recovery were also given. ~~Asym.~~ dihydroxylations of trans-3-hexene, 1-phenylcyclohexene, β-methylstyrene, and Me (E)-4-methoxycinnamate were also given.

ACCESSION NUMBER: 1990:75971 CAPLUS Full-text

DOCUMENT NUMBER: 112:75971

ORIGINAL REFERENCE NO.: 112:12975a,12978a

TITLE: Ligand-accelerated catalytic ~~asymmetric~~ dihydroxylation

INVENTOR(S): Marko, Istvan E.; Sharpless, K. Barry

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 8906225	A1	19890713	WO 1989-US86	
19890110 <--				
W: JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4871855	A	19891003	US 1988-159068	
19880223 <--				
US 4965364	A	19901023	US 1988-250378	
19880928 <--				
EP 395729	A1	19901107	EP 1989-901900	
19890110 <--				
EP 395729	B1	19950927		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03503885	T	19910829	JP 1989-501814	
19890110 <--				
JP 3153540	B2	20010409		
EP 658532	A1	19950621	EP 1995-200458	
19890110 <--				
EP 658532	B1	19990407		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 128449	T	19951015	AT 1989-901900	
19890110 <--				
AT 178578	T	19990415	AT 1995-200458	
19890110 <--				
JP 2001192383	A	20010717	JP 2000-335775	
19890110 <--				
CA 1338314	C	19960507	CA 1989-587964	
19890111 <--				
PRIORITY APPLN. INFO.:			US 1988-142692	A

19880111 <--

US 1988-159068 A

19880223 <--

US 1988-250378 A

19880928 <--

EP 1989-901900 A3

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JP 1989-501814 A3

19890110 <--

WO 1989-US86 W

19890110 <--

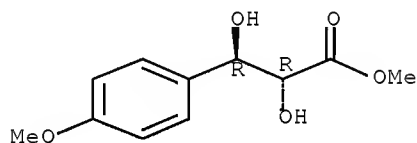
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
IT 125073-64-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 125073-64-5 CAPLUS

CN Benzenepropanoic acid, α,β -dihydroxy-4-methoxy-, methyl ester,
($\alpha R, \beta R$) - (CA INDEX NAME)

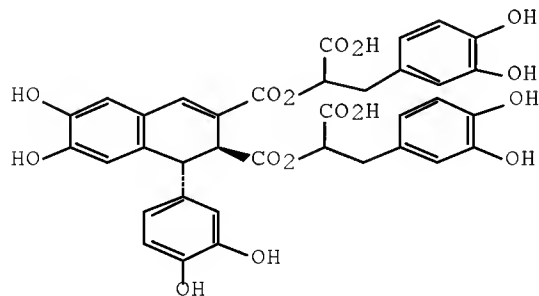
Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE
THIS

RECORD (20 CITINGS)

L14 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



I

AB A rosmarinic acid dimer named rabdosiin (I) was isolated from the stem of *R. japonica* (Labiatae). Its structure was determined including the absolute configuration of 4 asym. centers.

ACCESSION NUMBER: 1989:92028 CAPLUS Full-text

DOCUMENT NUMBER: 110:92028

ORIGINAL REFERENCE NO.: 110:15153a,15156a

TITLE: Rabdosiin, a new rosmarinic acid dimer with a lignan

skelton, from *Rabdosisia japonica*
AUTHOR(S): Agata, Isao; Hatano, Tsutomu; Nishibe, Sansei; Okuda,

Takuo
CORPORATE SOURCE: Fac. Pharm. Sci., Higashi Nippon Gakuen Univ., Hokkaido, 061-02, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1988), 36(8), 3223-5

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:92028

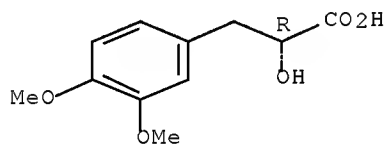
IT 54844-37-0P, (R)-3-(3,4-Dimethoxyphenyl)lactic acid
119152-55-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 54844-37-0 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-3,4-dimethoxy-, (α R)- (CA INDEX NAME)

Absolute stereochemistry.



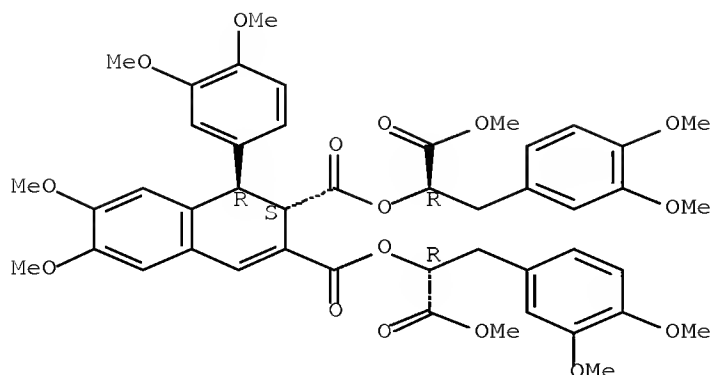
RN 119152-55-5 CAPLUS

CN 2,3-Naphthalenedicarboxylic acid, 1-(3,4-dimethoxyphenyl)-1,2-dihydro-6,7-

dimethoxy-, bis[1-[(3,4-dimethoxyphenyl)methyl]-2-methoxy-2-oxoethyl]

ester, [1R-[1 α ,2 β (R*),3(R*)]]- (9CI) (CA INDEX NAME)

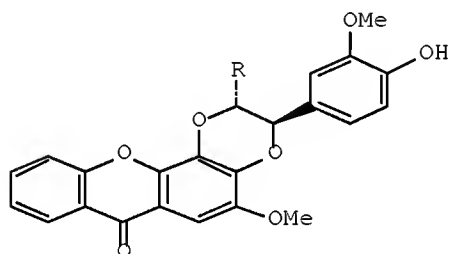
Absolute stereochemistry.



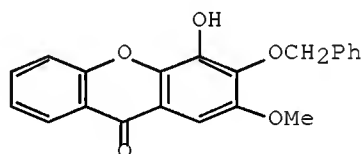
OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (12 CITINGS)

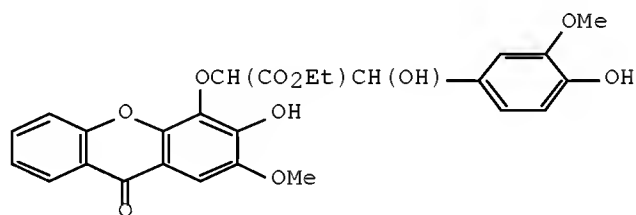
L14 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN GI



I



II



IV

AB Kielcorin (I; R = CH₂OH) was prepared from methoxyxanthone II and 3,4-MeO(PhCH₂O)C₆H₃COCHBrCO₂Et (III). Condensation of II and III followed by selective hydrogenation gave a mixture of erythro- and threo-alcs. IV. Ring closure of IV with POCl₃ gave trans-I (R = CO₂Et). Reduction of I (R = CO₂Et) with LiAlH₄ gave kielcorin (I; R = CH₂OH).

ACCESSION NUMBER: 1987:575707 CAPLUS Full-text

DOCUMENT NUMBER: 107:175707

ORIGINAL REFERENCE NO.: 107:28195a,28198a

TITLE: Synthesis of kielcorin

AUTHOR(S): Vishwakarma, R. A.; Kapil, R. S.; Popli, S. P.

CORPORATE SOURCE: Cent. Drug Res. Inst., Lucknow, 226 001, India

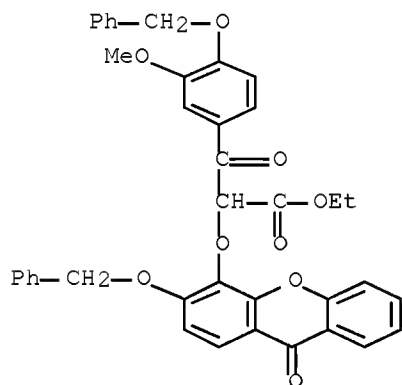
SOURCE: Indian Journal of Chemistry, Section B:
Organic Chemistry Including Medicinal Chemistry (1986
, 25B(10), 1021-3
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:175707

IT 110597-42-7P 110597-48-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and catalytic hydrogenation of)

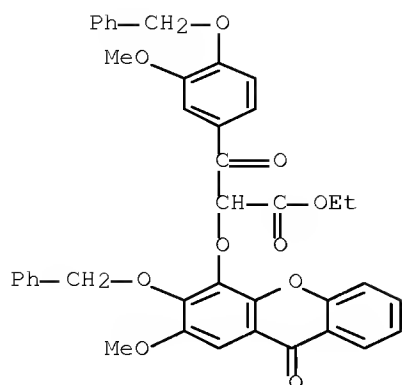
RN 110597-42-7 CAPLUS

CN Benzenepropanoic acid, 3-methoxy- β -oxo- α -[[9-oxo-3-(phenylmethoxy)-9H-xanthen-4-yl]oxy]-4-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



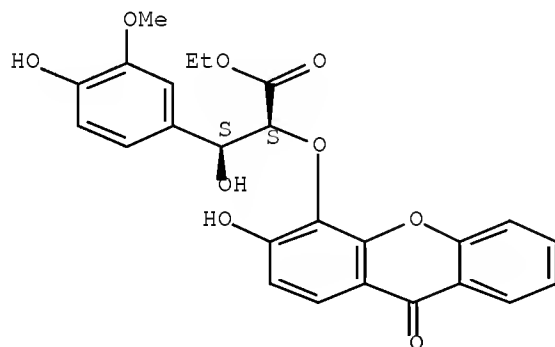
RN 110597-48-3 CAPLUS

CN Benzenepropanoic acid, 3-methoxy- α -[[2-methoxy-9-oxo-3-(phenylmethoxy)-9H-xanthen-4-yl]oxy]- β -oxo-4-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



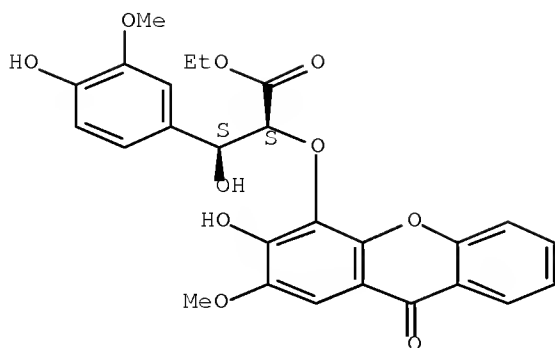
IT 110597-43-8P 110597-49-4P 110597-50-7P
 110618-96-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of, with phosphorus oxychloride)
 RN 110597-43-8 CAPLUS
 CN Benzenepropanoic acid, β ,4-dihydroxy- α -[(3-hydroxy-9-oxo-9H-
 xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (α R, β R)-rel- (CA
 INDEX NAME)

Relative stereochemistry.



RN 110597-49-4 CAPLUS
 CN Benzenepropanoic acid, β ,4-dihydroxy- α -[(3-hydroxy-2-methoxy-9-
 oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (α R, β R)-rel-
 (CA INDEX NAME)

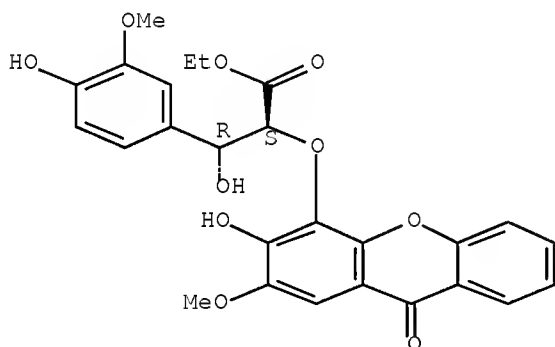
Relative stereochemistry.



RN 110597-50-7 CAPLUS

CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-2-methoxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βS)-rel- (CA INDEX NAME)

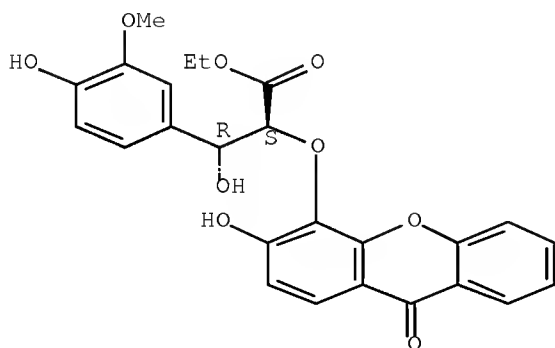
Relative stereochemistry.



RN 110618-96-7 CAPLUS

CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βS)-rel- (CA INDEX NAME)

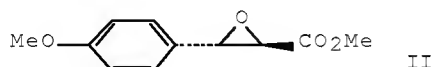
Relative stereochemistry.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE
THIS RECORD

(2 CITINGS)

L14 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



AB The reactivity and stereoselectivity of the epoxide-ring cleavage of trans-3-arylglycidate esters with 2-O₂NC₆H₄SH (I) were influenced markedly by the electronic nature of substituents on the aryl ring. Electron-donating substituents increased the reactivity and favored the formation of cis-opening products, whereas electron-withdrawing groups had the opposite effect. The cis ring cleavage of the 4-methoxyphenylglycidate II with I was catalyzed by Sn compds. (e.g., SnCl₄) to give threo-4-MeOC₆H₄CH(SC₆H₄NO₂-2)CH(OH)CO₂Me, a key intermediate in the synthesis of diltiazem. The transition state for this reaction involves coordination of Sn to both I and the epoxy O of II.

ACCESSION NUMBER: 1985:45260 CAPLUS Full-text
DOCUMENT NUMBER: 102:45260
ORIGINAL REFERENCE NO.: 102:7105a, 7108a
TITLE: Reaction of 3-phenylglycidic esters. Part 1.
Stereoselective opening of the oxirane ring of
trans-3-phenylglycidic esters with 2-

nitrothiophenols

and the effect of various catalysts thereon
AUTHOR(S): Hashiyama, Tomiki; Inoue, Hirozumi; Konda,
Mikihiko;
Takeda, Mikio
CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co.,
Ltd.,
Saitama, Japan
SOURCE: Journal of the Chemical Society, Perkin
Transactions
1: Organic and Bio-Organic Chemistry (1972-
1999) (

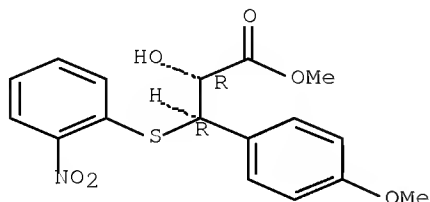
1984), (8), 1725-32
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:45260

IT 84056-03-1P 86603-47-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
{Preparation}; RACT (Reactant or reagent)
(preparation and acetylation of)

RN 84056-03-1 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, (α R, β R)-rel- (CA INDEX NAME)

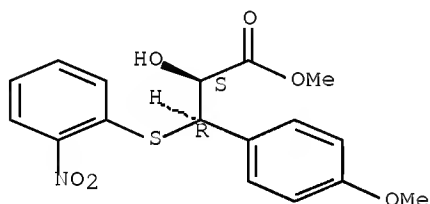
Relative stereochemistry.



RN 86603-47-6 CAPLUS

CN Benzenepropanoic acid, α -hydroxy-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, (α R, β S)-rel- (CA INDEX NAME)

Relative stereochemistry.



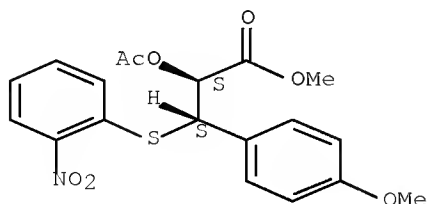
IT 94098-21-2P 94098-22-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 94098-21-2 CAPLUS

CN Benzenepropanoic acid, α -(acetyloxy)-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, (R^* , R^*)- (9CI) (CA INDEX NAME)

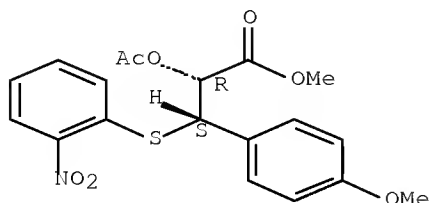
Relative stereochemistry.



RN 94098-22-3 CAPLUS

CN Benzenepropanoic acid, α -(acetyloxy)-4-methoxy- β -[(2-nitrophenyl)thio]-, methyl ester, (R^* , S^*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L15 34 S L11 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L16 24 S L12 NOT L14

L16 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2010 ACS on STN

AB The present invention relates to certain phenalkyloxy-Ph derivs. and analogs, to a process for preparing such compds., having the utility in clin. conditions associated with insulin resistance, to methods for their therapeutic use and to pharmaceutical compns. containing them. Thus, the several step preparation of N'-(2,4-difluorophenyl)-N-(2-{4-[(2S)-2-ethoxy-3-hydroxypropyl]phenyl}ethyl)-N-heptylurea starting from Et (2S)-2-ethoxy-3-(4-hydroxyphenyl)propanoate is described. The biol. activity of the compds. prepared is also given.

ACCESSION NUMBER: 2002:927392 CAPLUS Full-text

DOCUMENT NUMBER: 138:13961

TITLE: New phenylalkyloxy-phenyl derivatives

INVENTOR(S): Faegerhag, Jonas; Li, Lanna; Lindstedt, Eva-Lotte

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002096863	A1	20021205	WO 2002-SE1039	
20020530 <--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT,
BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

CA 2448645 A1 20021205 CA 2002-2448645

20020530 <--

AU 2002256960 A1 20021209 AU 2002-256960

20020530 <--

AU 2002256960 B2 20071220

NZ 529814 A 20031219 NZ 2002-529814

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EP 1404649 A1 20040407 EP 2002-726546

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2002010123 A 20040608 BR 2002-10123

20020530 <--

CN 1535261 A 20041006 CN 2002-814947

20020530 <--

CN 1275940 C 20060920

JP 2004534045 T 20041111 JP 2003-500043

20020530 <--

JP 4173799 B2 20081029

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20031126 <--

US 7241923 B2 20070710

ZA 2003009211 A 20050228 ZA 2003-9211

20031126 <--

MX 2003011004 A 20040227 MX 2003-11004

20031128 <--

HK 1068607 A1 20070504 HK 2005-101037

20050207 <--

PRIORITY APPLN. INFO.: SE 2001-1978 A

20010601 <--

WO 2002-SE1039 W

20020530 <--

OTHER SOURCE(S): CASREACT 138:13961; MARPAT 138:13961

IT 477546-90-0P, Ethyl (2S)-2-ethoxy-3-(4-

[[trifluoromethyl)sulfonyl]oxy]phenyl)propanoate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and reaction with tert-Bu acrylate)

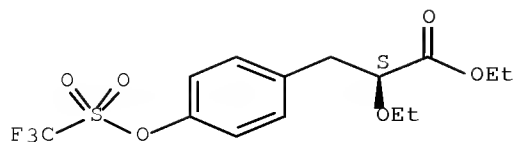
RN 477546-90-0 CAPLUS

CN Benzenepropanoic acid, α -ethoxy-4-

[[trifluoromethyl)sulfonyl]oxy]-,

ethyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



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E YOKOZAWA TOHRU?/AU
SET EXPAND CONTINUOUS
L17      21 S E2
L18      1 S L17 AND L3
L19      0 S L18 NOT (L14)
L20      17 S L17 AND (?HYDROGENATION?)
L21      14 S L20 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
          E SHIMIZU HIDEO?/AU
L22      319 S E13-E14
L23      1 S L22 AND L3
L24      0 S L23 NOT L14
L25      18 S L22 AND (?HYDROGENATION?)
L26      5 S L25 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L27      4 S L26 NOT L21
          E FUJIWARA TAKAHIRO?/AU
L28      135 S E25-E26
L29      1 S L28 AND L3
L30      0 S L29 NOT L14
L31      5 S L28 AND (?HYDROGENATION?)
L32      2 S L31 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L33      1 S L32 NOT (L21 OR L27)
          E INO YASUNORI//AU
L34      11 S E37-E38
L35      1 S L34 AND L3
L36      0 S L35 NOT L14
L37      3 S L34 AND (?HYDROGENATION?)
L38      1 S L37 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L39      0 S L38 NOT (L21 OR L27 OR L33)

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